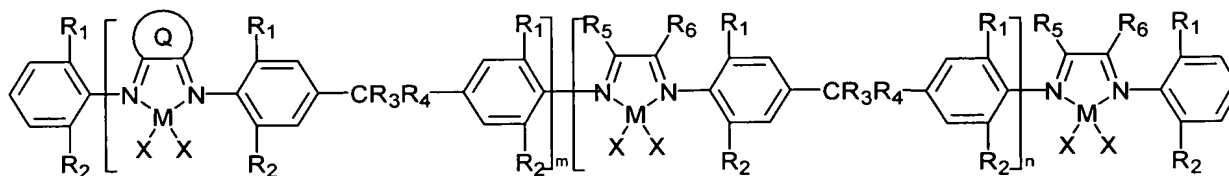
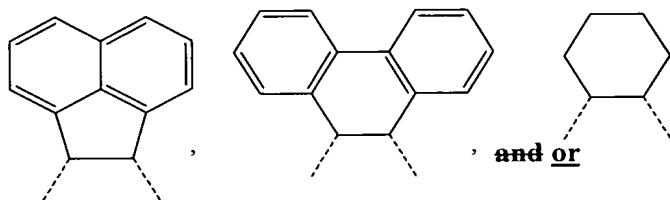


AMENDMENTS TO THE CLAIMS

1. (Currently Amended): A polynuclear α -diimine Ni(II) complex represented by the following formula:



wherein M is Ni; X is Cl or Br; m is an integer from 0 to 100, and n is an integer from 0 to 100; wherein at least one of m and n is not 0; R₁ and R₂ are the same or different, and are selected from the group consisting of H, methyl, ethyl, isopropyl and tert-butyl; wherein R₃ and R₄ are the same or different, and are selected from the group consisting of H, methyl, ethyl, propyl, butyl and phenyl, or R₃ and R₄ form a cyclic alkyl group; R₅ and R₆ are the same or different, and **is are** selected from the group consisting of methyl, ethyl, propyl and a heterocyclic group; and each Q is independently: **i**



2. (Currently Amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein, m is an integer from 1 to 100, and n is 0.

3. (Currently Amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein, X is Br; m is an integer from 1 to 20, n is 0; R₁ is isopropyl, R₂ is methyl or isopropyl; and R₃ and R₄ are the same and are H or methyl, or R₃ and R₄ form a cyclohexyl group.

4. (Previously amended): A polynuclear α -diimine Ni(II) complex of claim 3, wherein m is an integer from 1 to 10.

5. (Previously amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein m is 0.

6. (Currently Amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein, X is Br; m is 0, n is an integer from 1 to 30; R₁ is isopropyl, R₂ is methyl or isopropyl; R₃ and R₄ are the same, and are H or methyl, or R₃ and R₄ form a cyclohexyl group; and R₅ and R₆ are methyl.

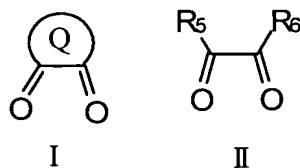
7. (Currently Amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein, X is Br; m is 0, n is an integer from 1 to 20; R₁ and R₂ are isopropyl; R₃ and R₄ are the same, and are H or methyl; and R₅ and R₆ are methyl.

8. (Currently Amended) A polynuclear α -diimine Ni(II) complex of claim 1, wherein, X is Br; m is an integer from 1 to 10, n is an integer from 1 to 20; R₁ is isopropyl, R₂ is methyl or isopropyl; R₃ and R₄ are the same, and are H or methyl, or R₃ and R₄ form a cyclohexyl group; and R₅ and R₆ are methyl.

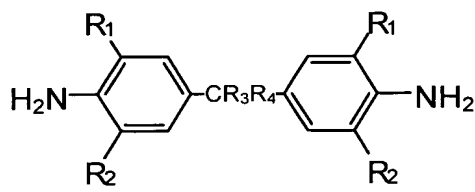
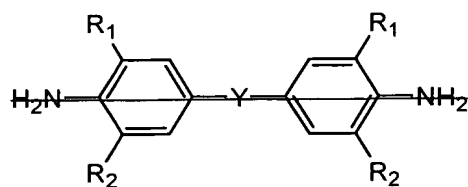
9. (Currently Amended): A polynuclear α -diimine Ni(II) complex of claim 1, wherein, X is Br; m is an integer from 1 to 10, n is an integer from 1 to 20; R₁ and R₂ are methyl; R₃ and R₄ are the same, and are H or methyl; and R₅ and R₆ are methyl.

10. (Currently Amended): A method for the preparation of the polynuclear α -diimine Ni(II) complex of claim 1, comprising the steps of:

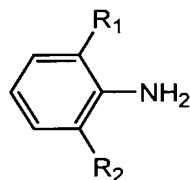
(a) condensing an α -diketone represented by the formula I, II or a mixture thereof,



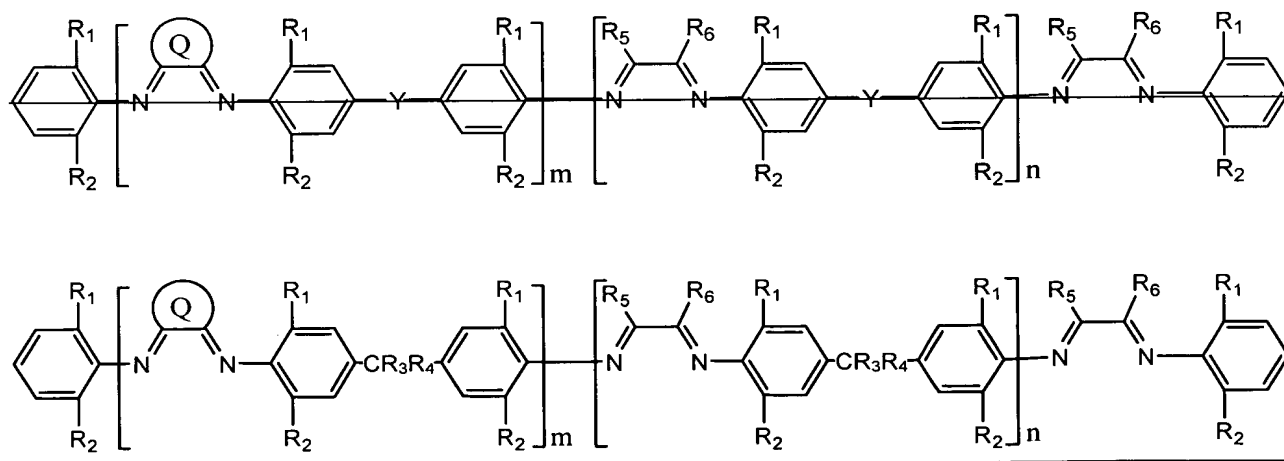
a substituted aromatic diamine represented by the formula



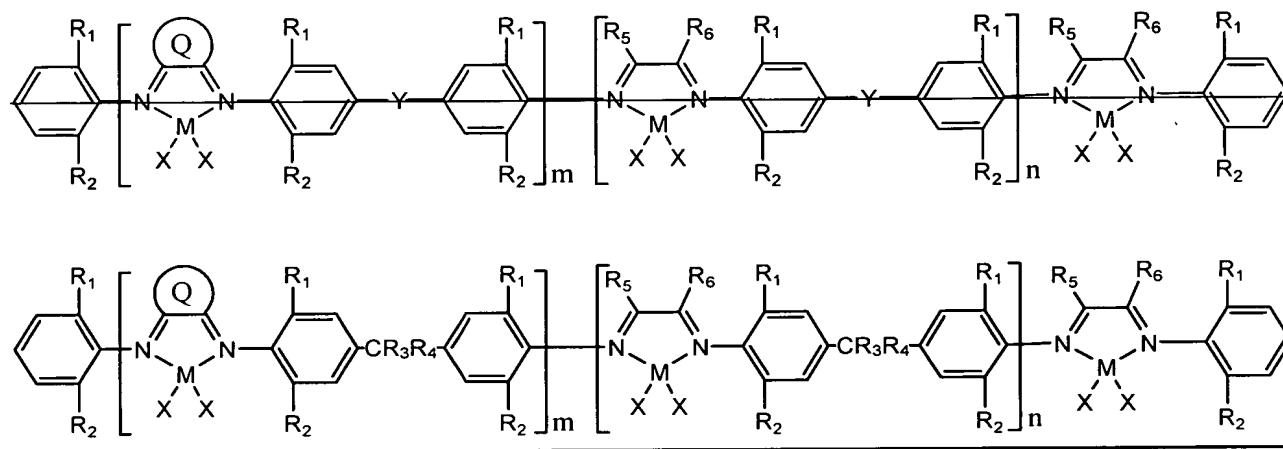
and a substituted aromatic amine represented by the formula



in a medium of alcohol, aromatic hydrocarbon, alcohol-ether mixture, or alcohol-halogenated hydrocarbon mixture and under the catalytic action of HCOOH, CF₃COOH, HF, HCl, HBr, or HI; thereby obtaining an oligomer of substituted α -diimine of the formula



(b) carrying out a coordination reaction of the oligomer of step (a) with NiX_2 , in the absence of water and oxygen, thereby obtaining a polynuclear α -diimino Ni(II) complex of the following formula:



wherein, R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , Q , M , X , m and n are as defined in claim 1.

11. (Withdrawn)